BRUHAT BANAGLORE MAHANAGARA PALIKE

Project Division

Rajajrajeshwari Nagara

DETAILED ESTIMATE

Name of Work: Improvements to road drain and other works in Siddharta Nagar, Peenya Plantation in Ward no 16.

Estimate Amount : 18000000.00

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
1	Removing BS Slab of drain and Stacking (Page No 25., I.No.5.32 of KPWD S.R 2015-16).								
		Sqm							
	For drain cover slab								
	Siddarthanagara Main Road from School								
	155-407	rhs	1	252	0.90		226.80		
	Total Quantity						226.80		
	25% Deduction for Open drain and damages						-56.70		
							170.10	**63.72**	**10838.77**
2	Refixing Stone Slabs of drains and Pointing in C.M(1:3) (Page No 25., I.No.5.33 of KPWD S.R 2015-16).								
		Sqm							
	For drain cover slab								
	Siddarthanagara Main Road from School								
	155-407	rhs	1	252	0.90		226.80		
	Total Quantity						226.80		
	25% Deduction for Open drain and damages						-56.70		
							170.10	**78.84**	**13410.68**
3	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No141., I.No.19.1 of KPWD S.R 2015-16).								
		Cum							
	Earthwork for desilting of drains								
	Siddarthanagara Main Road from School								
	155-320	lhs	1	165	0.50	0.45	37.13		
	155-407	rhs	1	252	0.50	0.45	56.70		
	for New Drain								
	Cross Road No-1								
	0-122	b/s	2	122	1.10	1.35	362.34		
	Siddarthanagara Main Road from School								
	0-155	b/s	2	155	1.10	1.35	460.35		
	320-407	lhs	1	87	1.10	1.35	129.20		
	for culverts								

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
	3 nos		3	9	1.60	1.40	60.48		
							1106.19	**187.01**	206868.59
4	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20.(Page No 136, I.No.18.20 of KPWD S.R 2015-16).								
		Cum							
	for damaged road								
	For damaged existing Siddarthanagara roads								
			1	1188	4.70	0.20	1116.72		
	For damaged existing Siddarthanagara internal roads								
			1	965	1.75	0.20	337.75		
							1454.47	**468.89**	681986.4
5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation,plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 (Page No 13., I.No.4.7 of KPWD S.R 2015-16).								
		Cum							
	bed concrete for flagging course								
	Cross Road No-1								
	0-122		2	122	1.1	0.15	40.26		
	Siddarthanagara Main Road from School								
	0-155		2	155	1.1	0.15	51.15		
	320-407		1	87	1.1	0.15	14.36		
	for culverts								
	3 nos		3	9	1.6	0.15	6.48		
							112.25	**5491.80**	616454.5
6	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (Page No 18., I.No.4.49.1 of KPWD S.R 2015-16).								
		Cum							

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
	for Drain bottom slab								
	Cross Road No-1								
	0-122		2	122	1.00	0.10	24.40		
	Siddarthanagara Main Road from School								
	0-155		2	155	1.00	0.10	31.00		
	320-407		1	87	1.00	0.10	8.70		
	for culverts								
	3 nos		3	9	1.40	0.25	9.45		
	for Drain vertical slab								
	Cross Road No-1								
	0-122		4	122	0.15	0.90	65.88		
	Siddarthanagara Main Road from School								
	0-155		4	155	0.15	0.90	83.70		
	320-407		2	87	0.15	0.90	23.49		
	for culverts								
	3 nos		6	9	0.25	0.90	12.15		
							258.77	**6332.04**	**1638541.99**
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , ncluding attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (Page No 15., I.No.4.31 of KPWD S.R 2015-16).								
		Sqm							
	for Drain bottom slab								
	Cross Road No-1								
	0-122		4	122		0.10	48.80		
	Siddarthanagara Main Road from School								
	0-155		4	155		0.10	62.00		
	320-407		2	87		0.10	17.40		
	for culverts								
	3 nos		6	9		0.25	13.50		
	for Drain vertical slab								
	Cross Road No-1								
	0-122		8	122		0.90	878.40		
	Siddarthanagara Main Road from School								
	0-155		8	155		0.90	1116.00		
	320-407		4	87		0.90	313.20		
	for culverts								
	3 nos		12	9		0.90	97.20		
							2546.50	**306.72**	**781062.48**

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
8	KSRB 4.9.2 : Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 (Page No 17., I.No.4.46.2 of KPWD S.R 2015-16).								
		Tonne							
	Considering 65 kg of steel per cum of concrete for drain						15.42		
	Considering 80 kg of steel per cum of concrete for drain						1.73		
							17.15	**69805.80**	1197169.47
9	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 10cm thick(Page No 25., I.No.5.31.2 of KPWD S.R 2015-16).								
		Sqm							
	new cover slabs								
	Cross Road No-1								
	0-122	b/s	2	122	0.90		219.60		
	Siddarthanagara Main Road from School								
	0-155	b/s	2	155	0.90		279.00		
	320-407	lhs	1	87	0.90		78.30		
	Provisions for open drain and damages,ref.Item-2						56.70		
							633.60	**794.88**	503635.97
10	Providing Machine cutting for BS slab including all lead and lift as per direction of Enginner-in charge of work -Data Rate								
		Sqm							
	new cover slabs								
	Cross Road No-1								
	0-122	b/s	488	(2X(0.9+0.5)			1366.40		
	Siddarthanagara Main Road from School								
	0-155	b/s	620	(2X(0.9+0.5)			1736.00		
	320-407	lhs	174	(2X(0.9+0.5)			487.20		
	Provisions for open drain and damages,ref.Item-2								
			113	(2X(0.9+0.5)			316.40		
							3906.00	**60.00**	234360.00
11	Providing precast slab of 250mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
		Sqm							
	new cover slabs								

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
	for culverts								
	3 nos		3	9	1.40				
							37.80		
							37.80	5111.00	193195.80
12	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 (Page No 142., I.No.19.14 of KPWD S.R 2015-16).								
		Cum							
	for new road construction								
	For damaged existing Siddarthanagara roads								
			1	1188	4.70	0.10	558.36		
	For damaged existing Siddarthanagara internal roads								
			1	965	1.75	0.10	168.88		
							727.24	152.45	110867.74
13	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 (Page No 12., I.No.4.2 of KPWD S.R 2015-16).								
		Cum							
	for new road construction								
	For damaged existing Siddarthanagara roads								
			1	1188	4.70	0.10	558.36		
	For damaged existing Siddarthanagara internal roads								
			1	965	1.75	0.10	168.88		
							727.24	5236.92	3808497.70

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
14	KSRRB M600-6. Construction of reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with OPC cement design mix M30 at 360 kg per cum, with 25mm and down size graded granite metal coarse aggregate at 0.69cum and fine aggregates @0.46cum with superplastisizer at 3lts conforming to IS 9103-1999 Reaffirmed 2008, coarse and fine aggregate conforming to IS: 383, replacing cement by fly ash to the extent of 15% and sand by 10%, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip,dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications MORTH Specification No. Suggestive (Page No,-174, I.No.22.5 of KPWD S.R 2015-16)								
		Cum							
	for new road construction								
	For damaged existing Siddarthanagara roads		1	1188	4.70	0.15	837.54		
	For damaged existing Siddarthanagara internal roads		1	965	1.75	0.15	253.31		
							1090.85	**6273.72**	6843687

Sl. No.	Particu
15	providing v engineer in .
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16	Providing depth 80m generator blade,cool sand and cost of cor charges a as per spe (Page No
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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
15	providing vaccum dewatering concrete as per direction of engineer in charge of thework (page no.XXXXIX, SI No.82) .								
		Sqm							
	for new road construction								
	For damaged existing Siddarthanagara roads								
			1	1188	4.70		5583.60		
	For damaged existing Siddarthanagara internal roads								
			1	965	1.75		1688.75		
							7272.35	**43.20**	**314165.52**
16	Providing groove cutting for width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. (Page No,-175, I.No.22.8 of KPWD S.R 2015-16)								
		m							
	for vertical groove cutting								
	For damaged existing Siddarthanagara roads								
			1	1188			1188.00		
	for Horizontal groove cutting								
	For damaged existing Siddarthanagara roads								
			339	4.70			1593.30		
	For damaged existing Siddarthanagara internal roads								
			276	1.75			483.00		
							3264.30	**124.20**	**405426.06**

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Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity		Total Amount in Rs
17	KSRRB M800-4. Providing and erecting direction and place identification retro- reflectorised sign as per IRC :67-2012 made of high intensity grade sheeting vide clause 800.1.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications. MORTH Specification No.801Using Type IV sheeting (Page No 180., I.No.24.4.1 of KPWD S.R 2015-16).								
		Sqm							
	For Siddharta Nagar		2				2.00		
							2.00	7509.24	
								Sub Total	
18	Add Towards Preparation of DPR-LS								
19	Add 2.0% Towards PMC/Third Party								
20	Miscellaneous and Contingency Charges								
								Grand Total	

TECHNICAL SANCTION
1,80,00,000 =-
(One eighty lakhs only)
under the head: P-3089
Registered as CE (R.R.N): SL No- 93. Vide Pgno. 22-23
subject to conditions contained in enclosed memo No: TS/93/16-17 Date: 4/6/16
TA, AE
CE/IRR-II

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16.
4. That the provisions made in the estimate are necessary and quite essential.

Mecadez Core Technologies Private Limited Consultant

M/s. Mecadez Core Technologies Private Limited

Assistant Engineer
Project Division
Rajarajeshwarinagara
BBMP Bangalore

Assistant Executive Engineer
Project Division
Rajarajeshwarinagara
BBMP Bangalore

Executive Engineer
Project Division
Rajarajeshwarinagara
BBMP Bangalore

Administrative approved for Rs 180,00,000/-
Rs. One Eighty lacks only/-
..... Is accorded
under the head P-3089
.....
By E.E.(P), R.R.N S/No. 42 P-No-20
Registered as EE(P), R.R.N No. 42 subject
to conditions contained in enclosed memo
No. TS/42/16-17 Date 04/06/2016.

AEE/TA

E.E(P), R.R.N 4/6/2016

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